

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of: Tadayuki KAMEYAMA et al.

Group Art Unit: 1792

Application Number: 10/522,618

Examiner: Nathan H. EMPIE

Filed: January 31, 2005

Confirmation Number: 6711

For: **METHOD OF PRODUCING POLARIZING FILM, POLARIZING  
FILM PRODUCED BY THE METHOD AND OPTICAL FILM**

Attorney Docket Number: 052009  
Customer Number: 38834

**SECOND SUPPLEMENTAL DECLARATION UNDER 37 C.F.R. 1.132**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I, Manabu Miyazaki, a citizen of JAPAN, hereby declare and state unequivocally:

1. I am currently employed in the Technology Section 10 of the Technology Department 2 of the Core Technology Center in Nitto Denko Corporation. I joined Nitto Denko Corporation in April 2006.
2. I received a master's degree in Osaka University, Graduate School of Engineering Science in 2006.
3. This second supplemental Declaration relates to my Declaration of April 20, 2009 and Supplemental Declaration of October 2, 2009.
4. The polymer film used in the experiments reported in the Declaration and the Supplemental Declaration was a PVA-based film having an average degree of

Second Supplemental Declaration Under 37 C.F.R. 1.132  
U.S. Appl No. 10/522,618  
Attorney Docket No. 052009

polymerization of 2,400 and a saponification degree of 99.9%, and containing glycerine in an amount of 12+/-1.5% by mass.

5 Further, as a person of the art myself, I find these experimental results sufficient to convince a person of the art that a period (a) selected in a range from 0.6 to 12 seconds provides unexpectedly improved results in terms of reduction of display unevenness, when period (b) is selected in a range from 13 to 120 seconds and total impregnation time is from 63 to 130 seconds, for a swelling bath wherein the aqueous solvent is water, with a temperature of the swelling bath is in a range of from 15 to 50°C, and wherein the hydrophilic polymer film is a polyvinyl alcohol-based film containing (i) polyvinyl alcohol having an average degree of polymerization in the range of from 1,000 to 4,000 and a saponification degree in the range of from 98 to 100 mol%, and (ii) glycerine in an amount of from 5 to 15% by mass as an additive.

The undersigned declares that all statements made herein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title

Second Supplemental Declaration Under 37 C.F.R. 1.132  
U.S. Appl No. 10/522,618  
Attorney Docket No. 052009

18 of the United States Code and that willful false statements may jeopardize the validity of  
the application or any patent issued thereon.

Date March 12, 2010

Signature: Manabu Miyazaki  
Manabu Miyazaki